

Allen County HamNews

Fort Wayne Radio Club

Allen County Amateur Radio Technical Society

August 2000

Volume 1 Issue 8

FCC Launches CORES

from *The ARRL Letter* – The FCC has begun implementing the Commission Registration System, to be known as CORES. While the action has few immediate implications for Amateur Radio licensees, CORES registration eventually will replace Universal Licensing System, or ULS, registration.

Described as an agency-wide registration system for anyone filing applications with or making payments to the FCC, CORES will assign a unique 10-digit FCC Registration Number, or FRN to all registrants. Once the system is fully deployed, all Commission systems that handle financial, authorization of service, and enforcement activities will use the FRN. The FCC says use of the FRN will allow it to more rapidly verify fee payment. Amateurs mailing payments to the FCC—for example, as part of a vanity call sign application—would include their FRN—once assigned—on the revised FCC Form 159.

The on-line filing system and further information on CORES is available by visiting the FCC Web site, <http://www.fcc.gov> and clicking on the CORES registration link.

For the time being, using an FRN is voluntary, although the Commission says it will consider making it mandatory in the future for anyone doing business with the FCC. That's not expected to happen until sometime next year, however. The FCC says it will modify its licensing and filing systems—including ULS—over the next several months to accept and use the FRN.

The FCC's Steve Linn confirmed this week that while CORES registration will supplant ULS registration, the ULS itself will remain the licensing database system for Wireless Telecommunications Bureau licensees, including amateurs. For now, the ULS remains available to new registrants. Amateurs who registered in the ULS prior to June 22 automatically have been registered in CORES and will receive an FCC Registration Number in the mail. ULS registrants also may search for their FRN on-line at the FCC's CORES site. The FCC says ULS passwords will become CORES passwords in most cases. It's possible to register on CORES using a paper Form 160.

As with the ULS, those registering with CORES must supply a Taxpayer Identification Number, or TIN. For individuals, this is usually a Social Security Number. Club stations must obtain an Assigned Taxpayer Identification Number (ATIN) before registering on CORES or ULS.

Linn says anyone can register via CORES and obtain an FRN. "CORES/FRN is entity registration," he said. "You don't need a

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license to be registered." Linn says the FCC is making every attempt to minimize the impact of CORES/FRN on Amateur Radio licensees, and no action will be required on the part of amateur licensees already registered in ULS.

A copy of the FCC Public Notice on CORES/FRN is available at <http://www.arrl.org/announce/regulatory/da001596.pdf>

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Deadline is the last Friday of the month.
Please do NOT send anything in all caps!!

Internet Home Pages:

Fort Wayne Radio Club:

<http://home1.gte.net/n9iww2/fwrc/>

ACARTS site:

ACARTS: <http://www.acarts.com>

Hamsplatter

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President's Corner



Summer is really in full swing now! Now that Field Day is behind us, we have the hamfest season to look forward to. We'll have the "small" hamfests like Van Wert and Greentown, and of course the larger hamfests like Findlay and of course, the Fort Wayne Hamfest. Speaking of small hamfests, for this August's Radio Club meeting, we're going to try something a bit different this year. Since it is a long way till the January auction, we thought we'd try a summer mini-hamfest event.

Here's how it will happen: on the night of our August meeting, we will start at 6:30 instead of the usual 7:30 meeting time. After a very brief business meeting, we will adjourn to the parking lot of Good Shepherd church for an outdoor swap meet. There are lights in the parking lot to help illuminate the trunks of cars or the beds of pickup trucks, and we will make maximum use of the remaining summer sunshine. Power will be extremely limited, so if you have a kilowatt amp to sell, it may be impossible to give it a try. One strict rule for this event is if you bring something and it does not sell, you **MUST** take it home with you!!

As they say "...and that's not all!" Everyone's invited to bring and show off their favorite piece of gear, whether a homebrew QRP rig or whatever you happen to be proud of. Hopefully, everyone will use their imaginations and bring items of interest for your fellow hams.

So mark your calendars now for the 18th of August, talk it up on the air, and search your hamshack for those items that will surely make your fellow hams want to take it home with them.

See you at the meeting, and talk to you on the air.

73, Steve

New FWRC Web Site

Effective September 1, the FWRC web site will have a new URL:

<<http://www.fortwayneradioclub.org>> New web site.
<<http://home1.gte.net/n9iww2/fwrc>> The old one will still be there until 1 Jan 2001. I will redirect everyone to the new web site when it is completed to use.

We will have web space for all paid club members for their own ham radio page. The address for that is: <http://www.fortwayneradioclub.net/> [yourCall Sign].

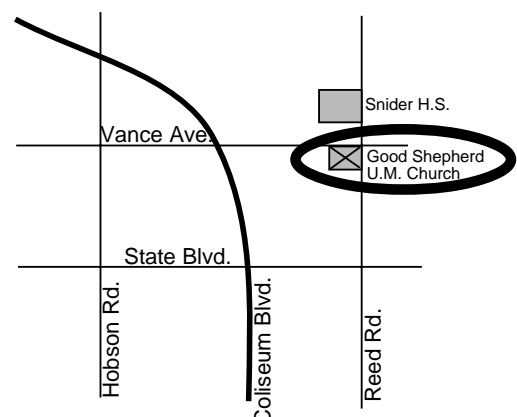
Example: <http://www.fortwayneradioclub.net/w9te>

Donations also will be accepted for this if someone wants to help out (paid to club treasurer). I will be administer both web sites as the webmaster.

Kevin Adam, N9IWW Webmaster

August Meeting

Friday, Aug. 18, 2000,
6:30 p.m. **Note time change!**
Good Shepherd United
Methodist Church, corner of
Vance Ave. & Reed Rd.
Program: Mini hamfest



Ft. Wayne Radio Club Meeting Minutes 21 July 2000

The July meeting of the Ft. Wayne Radio Club was held on 21 July 2000 at the Good Shepherd United Methodist Church, vice president Tom Baker initiated the meeting as president Steve Nardin was stuck in the airport at Pittsburgh trying to get home. (Although late, Steve eventually got home and was able to attend the meeting, no thanks to the weather and the air traffic control system). There were about 17 attendees.

The minutes from the June meeting were read and there were no corrections.

Treasurer Bob Streeter was unable to attend. Carole Burke provided his report as follows. The year-to-date income was \$2,792.67 while expenses year-to-date were \$1,585.46. The club has \$108.06 in cash and \$7,235.30 in Savings and Checking. The value of total club assets including the estimated value of club property is \$11,677.86.

Bill Hall announced that Volunteer exams would occur the last Saturday in July in Columbia City and the first Saturday in August at Georgetown Library. Bill also noted that now, hams taking VE exams are automatically registered in the FCC's Universal License System (ULS). If you have recently taken a VE exam you can contact the FCC's Tech Support Hotline (202) 414-1250 to obtain a temporary password that will allow you to interact with the ULS.

Wayne Berganimo noted that the July Foxhunt featured Carl Rittenhouse and Dave Evans as the fox. They hid the fox in the weeds across the street from Russ Moore Transmission on Coliseum (near Ultra Zone). It was found by Jim Pliett who will serve as the fox for the August hunt.

Tom Baker and Steve Nardin announced that a old fashioned tailgate hamfest was proposed for next months meeting. It would start at 6:30 p.m. and be conducted in the church parking lot. Steve had made arrangements to hold the tailgate with the church management. The proposal was put to a vote by the members present and was voted in the affirmative.

Tom Baker noted that the Diabetes Walk-a-Thon went very well. FWRC members manned rest stops and also participated in the walk. The Walk-a-Thon organizers were again very appreciative of our help and are expected to request our help again next year.

Walk-a-Thon T-shirts were available at the meeting for those members who participated.



Tom Baker commented that a new storage site for the club trailer may have been found. Specifically, we may be able to store the trailer at the North American Van Line facility. This site would be ideal for our purposes as it is relatively easy to get to and should provide security for our assets.

Vic Guess proposed that instead of distributing the electronic version of the newsletter via e-mail, that we use the club web page instead, and notify members who have elected to receive the newsletter electronically monthly when it is placed on the site. The proposal will be considered at the next Board meeting.

The 50/50 pot came in at \$13.00 and was split between the club and Donna Hall, xyl of Bill Hall. They donated their winnings to the club.

Following the business meeting, Tom Baker provided a summary report on Field Day. While wet, it sure was fun! The club put up two phone and one CW HF stations, a two meter station, a six meter station, a UHF station and a satellite station. Thirty eight persons operated and a total of fifty one persons participated in the Hog Roast. There were a fair number of visitors including a batch of Girl Scouts who got a first hand look at Ham radio. Tom noted that the CW operation had 82 contacts on 80, 201 on 40 and 67 on 20 meters. The phone operation had 70 contacts on 40, 41 on 20, 88 on 15, 61 on 10, 61 on 6 and 10 on 2 meters. Tom figures we should have accumulated about 2262 points. Not bad considering the event was off the air for about five hours because of the monsoon that struck around 5 p.m. and continued with about 4 inches of rain. Tom said each tent was introduced to the concept of "instant lakes, rivers and moats". But nobody got hurt and everyone had a great meal. Carole Burke noted that we broke even on the Hog Roast in part due to the contribution of soda provided by Larry Temenoff.

Respectfully submitted

Al Burke, WB9SSE Secretary, FWRC

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President's Message



During the month of July, I was able to attend some of the Hamfests in the area. I heard people talking about the decline of their Hamfest in attendance and vendor participation. One of those was in Indianapolis. I had not been there in several years and was surprised that it had become smaller. The attendance in Dayton was down this year also. We seem to be holding our own with our Hamfest. This is due in part to a great group of hams who put forth a lot of effort to put on a great Hamfest. The vendors want to return each year, and we pick up new ones. We will soon be starting to have monthly Hamfest meetings to get things organized for this year. As I have said before, we manage to find enough people for the weekend, but we also need help in the months before the Hamfest. This month is also our annual summer picnic, look for information about it in the activities column. It is a chance to get together with fellow hams and enjoy good food and company. Hope to see you there. That's all for this month.

73, Vic KA9LTV

August Meeting Schedule

All meetings are at 7:30 p.m. at Turnstone unless otherwise noted.

Board Meeting: Tues. 8/8/00 All members are encouraged to attend.

Hamfest Manager's meeting: Aug. 22

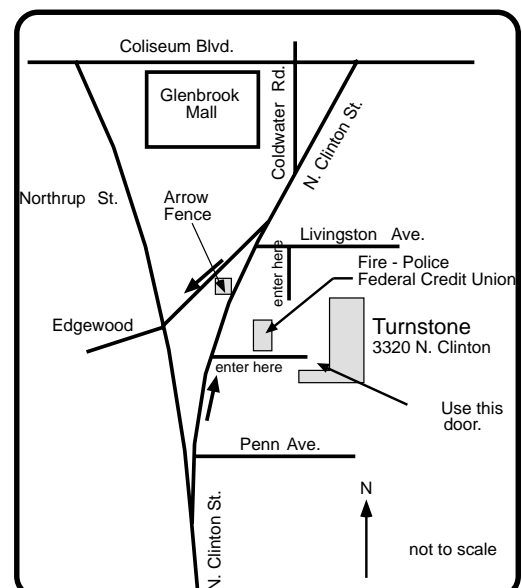
Summer Picnic: Saturday, August 26
Waynedale Park

Tech Committee:

ACARTS Summer Picnic

Here are the details of the summer picnic. It's Saturday, August 26. We'll start gathering about 2:00, and eating about 5:00. Please bring along a covered dish to share or a dessert, (or both) and your own place settings. We'll have extras, just in case. The club will be supplying the meat (probably hamburgers, hot dogs, and chicken) and drinks. I'll need a couple volunteers to help with the cooking and cleanup afterwards. Also, so I can prepare for the right number of people, please reserve a spot. You can tell me on the IMO net, e-mail me, or call me (see info elsewhere in this issue), but I do need to have at least a rough idea of how many people to buy meat for. Now, if you know the secret handshake, I'll tell you where this gathering will be. Really, it will be at Waynedale Park, at Koons and Elzy streets. There is a playground, basketball court, and tennis courts, plus I'll try to bring equipment for volleyball, softball, whiffle ball, soccer, frisbees, etc., so there should be plenty to do for everyone. I have also had people express an interest in having a foxhunt, so bring your equipment for that, too. It should be great time, so I hope we have a lot of families there.

John, N9IYI



E-Mail Newsletter Distribution Moving To Web Download

Since we have the newsletter available for downloading on both the FWRC & ACARTS web sites I would like to change the e-mail distribution to an all Web download (eliminate individual mailings).

I can send the PDF file to both club webmasters. After the file has been placed on both web sites members can be notified that it is available for download.

The main reasons are as follows:

1) Folks do change their e-mail address from time to time and/or the e-mail system gets backlogged resulting in error messages and returned mail. This means that the entire message (enclosure included) comes back to my mail box. This is unneeded traffic.

2) It will enable better control. Moving to Web distribution will enable such last minute changes to made more easily.

3) It will one less large attachment clogging your mailbox!

We will let you know when this change will be effective.

Vic Guess, WB9UZA
Editor, Allen County HamNews

ACARTS July General Meeting Minutes

The ACARTS July General Meeting was held on the 25th, and it was a special tour of WANE-TV. Approximately 28 hams and guests were present, and we were given an excellent tour of some of the production facilities, the control room, the studio and the weather center. We had (and took advantage of) the opportunity to ask questions, and it was a good learning experience for everyone.

After the main tour, the ACARTS repeater site (at the base of WANE-TV's tower) was opened up for viewing and questions for those who were interested.

Respectfully submitted by Don Gagnon, WB8HQS

New 6 M Repeater

The Mizpah Shrine group has put a new 6M repeater on the air. The repeater output is 53.330 with a repeater input of 52.330. In addition the repeater is linked to 2M at 145.330- and 23 cm at 444.800+. I tried it out and verified that it is indeed working as advertised.

Tom Baker / N9TB



Coax Cable - What Type is Right for Your Installation

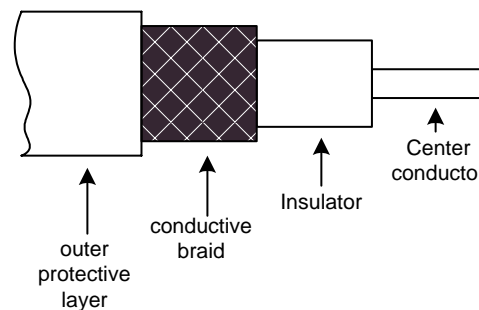
by Don Gagnon, WB8HQS

Every ham who has put up (or at least tried to put up) an outside antenna has probably worked with coax cable. It certainly is easier to use such a feedline than to try to connect your radio to the antenna directly, but just how much do you know about coax, or more precisely, which coax best fits your application? Let look at that question a bit.

There are several types of feedlines in use in ham stations today, but probably 99.9% of them use coax. At lower frequencies (usually in the HF bands), open wire feedlines have some advantages, but few hams have used it because it is more difficult to install and use, so most stick with coax.

The term coax (actually coaxial), basically means two wires with a common axis. A coax cable consists of a center conductor, with a relatively thick insulating layer, covered by a metal braid, and then a final protective covering for waterproofing (see below)

Coax cable performance is measured in several ways: characteristic impedance, power handling capability, RF loss, shielding, physical diameter, and flexibility to name a few. Several physical factors affect the cables performance, such as solid or stranded center conductor, conductor size, spacing between conductors, how tightly woven the braid is and many more. Table I gives you several key parameters for some common coax cables used by hams, and Table II provides attenuation (or loss) per 100 feet, at several frequencies.



Continued on page 6

Choosing Coax – Continued from page 5**Table I - Coax Characteristics**

Coax type	Impedance	Center conductor	Outer diameter	Shield coverage	Velocity factor	Approx. cost / ft
RG-8A	52	7 strands	0.405	97%	0.78	\$0.57
RG-8X	50	19 strands	0.242	95%	0.78	\$0.25
RG-11A	75	18 strands	0.405	97%	0.66	\$0.50
RG-58A	50	19 strands	0.195	96%	0.78	\$0.17
RG-59	75	# 22 solid	0.242	86%	0.78	\$0.24
RG-174	50	7 strand	0.101	88%	0.66	\$0.13
RG-223 *	50	# 19 solid	0.212	97%	0.66	\$0.73
9913	50	# 9 solid	0.405	100%	0.84	\$0.75

* RG-223 has 2 shield layers

**Table II - Coax Attenuation**

Coax type	10 MHz	Approximate loss per 100 feet (in dB)				
		50 MHz	100 MHz	200 MHz	400 MHz	900 MHz
RG-8A	.5	1.2	1.8	2.7	4.2	6.7
RG-8X	1.2	2.5	3.7	5.4	8	12.8
RG-11A	0.7	1.3	2	2.9	4.2	6.8
RG-58A	1.4	3.2	4.5	6.4	9	13.8
RG-59	0.8	1.8	2.6	3.8	5.4	8.4
RG-174	3.0	6.6	8.9	12	17.5	28.2
RG-223	1.4	3.1	4.5	6.4	9.2	14.3
9913	0.4	0.9	1.4	1.8	2.6	4.2

Choosing Coax – Continued from page 6

A special note about 9913 cable: 9913 is a very good, low loss cable, for one primary reason. The lower the loss of the insulator used between the two conductors, the lower the loss of the cable, with air being the best. With 9913, instead of a solid layer of insulating material, a thin plastic “strand” is wound around the center conductor, at maybe 1 turn per inch of cable. It’s purpose is simply to act as a spacer between the center conductor and the braid, without having to completely fill that space. By doing this, possibly 90% of that space is actually air, and thus we have a lower losses cable. The downside of this is manufacturing cost, and the fact that you have to be very careful bending it, to make sure the braid doesn’t kink and form an impedance bump at that point.

Selecting your cable. What type of cable you use depends on several factors, not the least of which is cost. In addition to cost, you have to consider how long the coax run will be, what the highest frequency it will be required to carry, and just how much loss you are willing to put up with. The easiest way to look at this is with a couple of examples.

Example 1: Let’s say you are putting up a 6M antenna with a feed impedance of 50 ohms. The total distance from your radio to the antenna is 120 feet, and your transmitter output power is 100 watts. Let’s see what the difference would be using RG-58 and 9913 coax.

For RG-58: The total cost would be $120 \times \$0.17 = \20.40 The total loss would be $3.2 \text{ dB (per 100 feet at 50 MHz)} \times 120/100 = 3.84 \text{ dB loss}$

The equation for calculating the power out of the coax is:

$$P_{\text{out}} = \frac{P_{\text{in}}}{10^{\frac{\text{dB}}{10}}}$$

So the amount of power that you will get out of the coax and into the antenna is:

$$P_{\text{out}} = \frac{100}{10^{.384}} \text{ which is equal to 41 Watts}$$

For 9913: Total cost: \$90.00 Total loss: 1.08 dB Power out = 78 Watts

So here is the trade off: is it worth \$70 more of your hard earned cash to get approximately twice the output power? Note that there are several other coax cables between these two extremes, for which the cost differential would not be so great, but the benefits would be also be less.

On the other hand, the higher in frequency you go, the greater the benefit in using a better coax. Let’s look at another example:

Example 2. We’ll use the same basic details, but we’ll use it on the 70 cm (440 MHz) band. (we’ll use the attenuation at 400 MHz for simplicity – although not totally accurate).

For RG-58: Total cost: \$20.40 Total loss: 10.8 dB Power out = 8 Watts

For 9913: Total cost: \$90.00 Total loss: 3.12 dB Power out = 49 Watts

In this example, the additional \$70 would probably be considered a good investment to get 6 times as much power to the antenna.

Conclusion. As you can see, selecting the right coax for your antenna can be very important, both to your pocketbook and your on the air operation. The next time to put up an antenna, take a few minutes to run through the numbers, and make a logical decision to get the most bang for the buck.

Note that I included some additional information in Table I that might help you if you get serious about playing with antennas. The percent shield coverage is one indication of how good the cable might be at keeping out unwanted local noise during receive, and the velocity factor will be needed if you get into designing matching networks built from coax cable.



Fewer Than One-fifth Of Hams Are Uls-registered

from *The ARRL Letter* – The FCC has confirmed that fewer than one-fifth of US Amateur Radio licensees—including club stations—are registered on the Universal Licensing System. The FCC deployed the ULS for the Amateur Service just under a year ago, although registration has been available far longer.

ULS registration “protects your call sign within the system” and could prevent it from inadvertently being deleted or reissued due to a filing error.

The question of how many hams now were ULS-registered arose during the July 21 meeting of the National Conference of Volunteer Examiner Coordinators, held in Gettysburg, Pennsylvania. Not even the FCC officials on hand had an answer. After the meeting, RC Smith, W6RZA, of the Greater Los Angeles VEC crunched some numbers to see if he could supply one for his colleagues.

Starting with the 717,629 licensees in the FCC database at that point, Smith subtracted the 31,449 determined to be expired but within the two-year grace period. Sorting on the Licensee ID Number field, Smith came up with 129,947 ULS registrants, or 18.9% of the remaining 686,180 licensees.

The FCC’s Steve Linn, N4CAK, says the Commission ran its own numbers and came up with a similar figure—although without subtracting for those within the two-year grace period. “The quick run done here looked at all active records—717,314—and how many had Licensee ID numbers, giving 18.1%,” Linn said this week. “Take out the grace records and we’re in the same ballpark.”

During his comments at the Dayton Hamvention FCC fo-

rum, Linn encouraged amateur licensees to register with ULS to “lock in” their FCC records. ULS registration, he said, “protects your call sign within the system” and could prevent it from inadvertently being deleted or reissued due to a filing error.

All amateurs must be registered with the ULS in order to file applications with the FCC, even for such routine matters as a change of address or a license renewal. Registration requires that licensees supply a Taxpayer Identification Number, or TIN—a Social Security number for an individual. Some amateurs have protested that requirement citing privacy concerns, but the FCC has maintained that it’s bound by the Debt Collection Improvement Act to require it.

Last month, the FCC announced that it has begun implementing the new Commission Registration System, or CORES. Registration in CORES eventually will replace ULS registration, although the FCC has not indicated just when the switch will occur. CORES registration also will require registrants to supply a TIN. Those already registered in ULS need not register again in CORES, however. The FCC says the ULS will continue to be the primary Amateur Radio licensee database and the only means to file applications and updates.

The FCC’s Wireless Telecommunications Bureau recently announced expanded hours for ULS technical support. ULS users may now reach the FCC Technical Support Hotline, 202-414-1250, from 7 AM to 10 PM weekdays. Weekend service is newly available. On Saturdays the Hotline will be available from 8 AM until 7 PM and on Sundays from noon until 6 PM (all times Eastern). Users also may contact tech support via e-mail at ulscomm@fcc.gov.

For more information, to access the ULS or to register, visit the FCC’s ULS site, <http://www.fcc.gov/wtb/uls>.

Regional Hamfests

<u>Date</u>	<u>Location</u>	<u>Contact Phone</u>	<u>URL or E-mail</u>
13 Aug 2000	Greentown, IN	765-668-4814	ka6nqwnick@netusa1.net
9 Sep 2000	Spencer, IN	812-829-2140	
10 Sep 2000	Findlay, OH	419-423-4604	http://www.bright.net/~kanga/w8ft/hamfest.html
16 Sep 2000	Grand Rapids/Caledonia, MI	616-458-9029	http://www.w8dc.org
17 Sept 2000	Cincinnati, OH		n8jp@arrl.net
23-24 Sep 2000	Grayslake, IL	708-457-0966	mbrost@cin.net
24 Sep 2000	Cleveland, OH	800-CLE-FEST	http://www.hac.org
8 Oct 2000	Lansing, MI	517-676-2710	http://www.qsl.net/cmarc/hamfair.html
15 Oct 2000	Kalamazoo, MI		http://www.qsl.net/k8blo/hamfest.htm
15 Oct 2000	Lima, OH	419-647-6321	gas1950@aol.com
18-19 Nov 2000	Fort Wayne, IN	219-484-1314	http://www.acarts.com/hfmain.htm

For more complete information go to <http://www.acarts.com/hamfests.htm>.

VEC Schedule

NOTE: ARRL-VEC to charge for code tests: Starting with the inception of the new FCC Amateur Radio licensing rules on April 15, 2000, the ARRL-VEC will charge a test fee of \$6.65 to take the Element 1 (5 WPM Morse code) test. Until April 15, the 5 WPM Morse code test (Element 1A) and/or the Novice written test (Element 2) are free at ARRL-VEC test sessions.

15-Aug-2000

Sponsor: UNSPONSORED

Time: 6:30 PM (Walk-ins allowed)

Contact: TERRY L MILLER (765)457-2449

VEC: ARRL/VEC

Location: UAW LOCAL 1166 2761 N 50 EAST RD

KOKOMO, IN 46902

26-Aug-2000

Sponsor: HANCOCK COUNTY ARC

Time: 9:00 AM (Walk-ins allowed)

Contact: ROBERT W SIMCOX (317)861-9621

VEC: ARRL/VEC

Location: SHERIFF'S BUILDING
EMERGENCY MANAGEMENT CENTER 123 E
MAIN ST

GREENFIELD, IN 46140

16-Sep-2000

Sponsor: MICHIGAN CITY ARC

Time: 08:00AM (Walk-ins allowed)

Contact: ROBERT A LYLES (219)874-3386

VEC: ARRL/VEC

Location: RED CROSS CHAPTERHOUSE 232 E
8TH ST

K9ET@ARRL.NET

MICHIGAN CITY, IN 46360

19-Sep-2000

Sponsor: UNSPONSORED

Time: 6:30 PM (Walk-ins allowed)

Contact: TERRY L MILLER (765)457-2449

VEC: ARRL/VEC

Location: UAW LOCAL 1166 2761 N 50 EAST RD

KOKOMO, IN 46902

23-Sep-2000

Sponsor: W5YI-VEC

Time: Call for time and walk-in info

Contact: ROBERT E HIGH (419)795-5763

VEC: W5YI VEC

Location:

CALL FOR INFO

VAN WERT, OH 45891



30-Sep-2000

Sponsor: W5YI-VEC — WHITLEY COUNTY ARC

Time: 9:00 AM (Walk-ins allowed)

Contact: HENRY R MACKEY (219)244-7735

VEC: W5YI VEC

Location:

CALL FOR SITE LOCATION

COLUMBIA CITY, IN 46725

12-Oct-2000

Sponsor: GOSHEN ARC

Time: 7:00 PM (Walk-ins allowed)

Contact: LYLE L LONG (219)875-8455

VEC: ARRL/VEC

Location: HOMAN BUILDING

GREENCROFT BLVD

GOSHEN, IN 46525

17-Oct-2000

Sponsor: UNSPONSORED

Time: 6:30 PM (Walk-ins allowed)

Contact: TERRY L MILLER (765)457-2449

VEC: ARRL/VEC

Location: UAW LOCAL 1166 2761 N 50 EAST RD

KOKOMO, IN 46902

28-Oct-2000

Sponsor: HAMILTON COUNTY ARES

Time: 8:00 AM (No walk-ins)

Contact: STEVEN P HENKE (317)578-0304

VEC: ARRL/VEC

Location: CARMEL FIRE STATION #1

CARMEL MUNICIPAL COMPLEX

CARMEL, IN 46032

28-Oct-2000

Sponsor: VAN WERT VE GROUP

Time: (No walk-ins)

Contact: ROBERT E HIGH (419)795-5763

VEC: ARRL/VEC

Location: CALL FOR INFO

VAN WERT, OH 45891



For Sale

- Kenwood TS-430S HF transceiver. Xmtr finals new by Kenwood in 2/99. Excellent condition. Never run mobile. \$535 or \$575 with Shure 444 desk mike.
- Diamond F23 2-meter vertical antenna. \$60. Excellent condition.

Gary N9IJB @ 219-627-0334 rrradioman@fwi.com

- Icom HS-60 Headset (w/ microphone). This is for a "W" or "SR" series H.T. such as the IC-W2A/E. It was purchased in error at a hamfest so it has had very little use. \$15.00. WB9AA, Ron, 747-3816 12:00 p.m. - 4:00 p.m.

- Yaesu FT-727R dual band 2mtr-440 HT w/2 batteries & AC adapter,, \$125
- Cushcraft A3-S triband beam 10-15-20 mtrs , new in the box, \$295 Gene Fisher w9mzh@juno.com

NOTE: For Sale & Wanted items will be listed for 2 months only unless the ad is resubmitted. If you sell an item the first month, please contact the editor so the item can be removed.

ISS Ham Gear Cleared For Takeoff

from *The ARRL Letter* – The way has been cleared for the Amateur Radio gear destined for use aboard the International Space Station to be launched into space. The initial amateur gear is scheduled go up to the ISS on mission STS-106 aboard the shuttle Atlantis on September 8. As part of the multinational Amateur Radio on the International Space Station project, the gear will be stowed aboard the ISS for use by the Expedition 1 crew, which comes aboard in late October.

"We have been working for years to bring the first ISS hardware to fruition," ARISS Administrative Chairman Frank Bauer, KA3HDO, said this week. "It looks like the final issues that have held us back are now over, and we are moving ahead toward the launch of the initial hardware on STS-106."

Bauer said three events over the past couple of weeks were key to moving the ARISS project forward. The first was the launch and docking of the Russian-built Zvezda service module that eventually will house the ARISS gear. In addition, Bauer said, a series of RF, power-up and other tests on the amateur equipment were successfully completed

in Russia, thanks to Lou McFadin, W5DID, of ARISS and AMSAT and Carolynn Conley, KD5JSO, of NASA. He said NASA also signed off on the required flight safety package, giving the go-ahead to release the amateur hardware for flight aboard the upcoming shuttle mission.

The Expedition 1 crew will consist of three amateurs: US astronaut Bill Shepherd, KD5GSL, and Russian Cosmonauts Sergei Krikalev, U5MIR, and the recently licensed Yuri Gaidzenko, whose call sign was not available.

So that the station will be available to the first crew, the ARISS initial station gear will be installed temporarily aboard the ISS functional cargo block and use an existing antenna that's being adapted to support FM voice and packet on 2 meters but not on 70 cm. Eventually, the ARISS gear will find a more-permanent home aboard the Zvezda service module.

A Russian call sign, RZ3DZR, has been issued for the ISS ham radio station. A German call sign, DL0ISS, also has been issued, and a US call sign will be applied for.

The ARRL and AMSAT have been providing leadership and consulting services for ARISS. ARRL Field and Educational Services Manager Rosalie White, K1STO—a member of the Space Amateur Radio EXperiment Working Group—says this is an exciting moment for the project, which has one goal of letting students on Earth communicate with the ISS inhabitants via Amateur Radio.

"All of the hard work from the many volunteers is starting to pay off," she said. "We have so many people to thank—all of the AMSAT volunteers, ARRL people, the NASA folks—so many of whom are hams. But seeing the youth of the United States and other countries benefit is our reward."

Bauer says the astronauts and cosmonauts plan to take some time off for educational outreach contacts with schools, even during the busy years of ISS construction that lie ahead. "NASA's Division of Education is a major supporter of the Amateur Radio activity," he said. Bauer says access to Amateur Radio also is considered a morale booster for ISS crew members by providing family and general contacts "for people who will be in space many weeks at a time." The initial crew will be aboard the ISS for three to four months.

As the International Space Station takes its place in the heavens, Bauer said, "the Amateur Radio community is prepared to do its part by helping to enrich the experience."

For more information about Amateur Radio on the ISS and SAREX, visit the SAREX Web site, <http://sarex.gsfc.nasa.gov/>.

Membership Application for ☐ FWRC - or - ☐ ACARTS (check one)

Name: _____ Call sign: _____ License class: _____

Street address: _____ City: _____

State: _____ ZIP: _____ -⁴ _____ Phone #: (____) _____ - _____ Unlisted? ☐ Yes

Email address: _____ ARRL Member? ☐ Yes

Fort Wayne Radio Club Dues

Regular membership ☐ \$15.00 / year

Family membership ¹ ☐ \$21.00 / year

Student membership ² ☐ \$6.00 / year

Associate membership ³ ☐ \$15.00 / year

(Memberships for Jul - Dec are 1/2 the stated amounts.)

A.C.A.R.T.S. Dues

Regular membership ☐ \$12.00 / year

Additional family members ¹ ☐ \$6.00 / year

Student membership ² ☐ \$6.00 / year

Associate membership ³ ☐ \$6.00 / year

(New Regular memberships are \$1/month)

1. Please list all names and calls on an attached sheet.

2. K-12 or full time student

3. unlicensed member

4. 9 digit ZIP code required for US bulk mail

May we list your name, call & email address in our membership roster and on our club web site? ☐ Yes ☐ No

Both clubs now offer email delivery of this newsletter as a (Adobe Acrobat) PDF file, in lieu of a paper copy sent through the mail. How would you like your newsletter delivered? ☐ by email ☐ by snail mail ☐ download from web site.

Please attach a check (number _____) for the appropriate amount and bring to a club meeting or mail to:

Fort Wayne Radio Club
PO Box 15127
Fort Wayne, IN 46885

A.C.A.R.T.S.
PO Box 10342
Fort Wayne, IN 46851

For dual membership, fill out both sides and send 2 checks to either club.

ACARTS Voice Repeaters

146.880 (-) General use / Skywarn priority

147.255 (+) General use / Autopatch priority

443.800 (+) General use

(All repeaters have autopatch, but 88 has only speed dial emergency #'s.)

ACARTS Digital Repeaters (digipeaters)

144.390 (s) APRS - wide

145.010 (s) General use, NETROM (FWA) - wide

223.660 (s) BBS use ONLY NETROM (FWA220) - wide

Fort Wayne Radio Club Repeaters

Voice: 146.76 (-) General use; (2 sec. initial keyup delay)

146.94 (-) General use with autopatch

146.91 (-) Autopatch only

444.875 (+) General use

ATV: 439.25 In, 910.250 Out, 144.340 Audio & control

Area Traffic Nets

(please submit any changes or corrections to the editor)

IMO: meets nightly at 6:30 p.m. (2330 UTC) on 146.88

Area Traffic Nets - Continued

Auburn: meets Mon., Tue., Wed., Thur., Fri., & Sat. at 6 p.m. (2300 UTC) on 147.015+

21 Repeater Group: meets each Wednesday at 9 p.m. (0200 UTC) on 147.150

Miscellaneous Nets

Huntington ARES: Sat/Tues at 8:00 p.m. (0100 UTC) on 146.685

Portside: 3rd Wednesday at 7:30 p.m. (0030 UTC) on 444.300

Whitley Co. / ARES: Wednesdays at 7:15 p.m. (0015 UTC) on 145.270
(Note 131.8 PL disabled for all nets)

Whitley Co. Sunday: Sundays at 7:45 p.m. (0045 UTC) on 444.550
+-. (The 146.460 simplex crossbanding from both nets has been dropped.)

Sloppy Code Net: Sundays at 9 p.m. (0200 UTC) on 40M (7.1405 MHz). This CW net's purpose is to build confidence and help increase code speed. The speed is generally 1-10 WPM. If you want to copy only contact Henry, KA9ZNN at 749-8968 for details..

Six Meter AM net (informal): Every Saturday night at 7:00 p.m. on 50.580 MHz. Intercom on 146.430 simplex.